

RESEARCH UNITS

Three research units within the Division of Agriculture, Forestry and Veterinary Medicine provide specialized assistance with MAFES projects.

GEORESOURCES INSTITUTE

GeoResources Institute

Development and verification of applications of geospatial technologies related to managing, conserving and protecting agriculture and natural resources is a major focus of the GeoResources Institute, or GRI. The institute provides a center of expertise in agricultural and related areas that builds multidisciplinary research teams from across the academic, governmental and commercial communities.

The institute has current research in several areas:

- Pest management
- Water management
- Productive capacity mapping
- Advanced production systems
- Nutrient management
- Stress detection
- Directed scouting
- Crop growth regulation

FOOD SCIENCE INSTITUTE

Food Science Institute

The Food Science Institute provides support and service to all foods related activities at Mississippi State. Scientists associated with the institute work in the university's on-campus laboratories and pilot plants, and there is a close interaction with the Delta and Coastal Research and Extension Centers and other university facilities with food-related activities.

The center's research activities include work in these areas:

- Dairy food technology
- Food chemistry
- Food engineering
- Food microbiology and safety
- Human nutrition
- Meat science
- Physical chemistry and rheology
- Product development
- Sensory analysis

LIFE SCIENCES & BIOTECHNOLOGY INSTITUTE

Life Sciences & Biotechnology Institute

The Life Sciences and Biotechnology Institute was formed in 2000 to encourage scientific collaborations among faculty members in biology, agriculture, human and animal medicine, food science, and bioinformatics. Proteomics, a research area dealing with proteins produced by cell type and organism, is a primary focus area.

The institute holds training programs in genomic and proteomic analyses, as well as the use of robotic instrumentation. The workshops provide Mississippi State researchers and students hands-on experience with the most modern techniques in biotechnology. The institute's 2004 Proteomic Workshop also included participants from the Mississippi Medical Center, the University of Mississippi and USDA/ARS Stoneville.



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